



Format No: CP/TF/01

**TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade**

Lab ID : CP-2019-09-12-35 Date: 10-05-19

Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli, Kodigehalli Sub Division.

Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyananyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 07-05-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,  
IS 4031 (Part 1,2 3,4,5, 6,11):1988  
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4  
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5  
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6  
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5  
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5  
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 08-05-19

Environmental Conditions during test : Temperature: 26°C  
Humidity: 72%

| SLNo. | Physical properties                                       | Results     | Requirement as per IS 12269: 2013 |
|-------|-----------------------------------------------------------|-------------|-----------------------------------|
| 1     | Fineness by dry sieving (%)                               | 2.2         | —                                 |
| 2     | Finess by Air permeablity method (m <sup>2</sup> /kg,Min) | 249.5       | 225m <sup>2</sup> /kg, Min        |
| 3     | Density (gm/cc)                                           | 3.11        | —                                 |
| 4     | Standard Consistency (%)                                  | 27.5%       | Not specified                     |
| 5     | Initial Setting time                                      | 170 minutes | Not less than 30 minutes          |
| 6     | Final Setting time                                        | 260 minutes | Not more than 600 minutes         |
| 7     | Soundness (Le Chatelier's Method)                         | 1.5mm       | Not more than 10 mm               |

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

**CP-2019-09-12-35** **Date: 06-06-19**  
 Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08  
 Kodigehalli, Kodigehalli Sub Division.  
 Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra,  
 Vidyananyapura, Bangalore-560097.  
 EE(Project)/Ynk Zone/WO/114/2017-18  
 07-05-19  
 Birla Super 53grade  
 IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,  
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5  
 IS 4031 Part 6, Determination of Compressive Strength, Clause 6  
 08-05-19  
 Environmental Conditions during : Temperature: 26°C  
 Humidity: 72%

### Compressive Strength

| Physical properties | Results               | Requirement as per<br>IS 12269: 2013 |
|---------------------|-----------------------|--------------------------------------|
| 3 Days              | 28.5N/mm <sup>2</sup> | Not less than 27 N/mm <sup>2</sup>   |
| 7 Days              | 39.0N/mm <sup>2</sup> | Not less than 37 N/mm <sup>2</sup>   |
| 28 Days             | 58.5N/mm <sup>2</sup> | Not less than 53 N/mm <sup>2</sup>   |



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## TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-09-12-35 Date: 10-05-19  
Project Name : Construction of Indoor Stadium With All Amenities at  
Sahakarnagar in Ward No.08 Kodigehalli, Kodigehalli Sub  
Division.  
Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block,  
DB Sandra, Vidyaranyapura, Bangalore-560097.  
Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18  
Date of Receipt : 07-05-19  
Sample Type : 40mm down size coarse aggregate  
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates )  
IS: 2386 :1963(Part - 1,3,4) RA2011  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
IS 2386 Part 4: Mechanical Properties  
Date of test : 07-05-19

### SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|------------|-----------|------------------------|-----------------------------------|------------------------------|-----------|-----------------------------|
| 1          | 80 mm     | 0                      | 0                                 | 0.0                          | 100       | 100                         |
| 2          | 40 mm     | 423                    | 423                               | 2.8                          | 97.2      | 90-100                      |
| 3          | 20 mm     | 5852                   | 6275                              | 41.8                         | 58.2      | 30-70                       |
| 4          | 10 mm     | 4232                   | 10507                             | 70.0                         | 30.0      | 10-35                       |
| 5          | 4.75 mm   | 4225                   | 14732                             | 98.2                         | 1.8       | 0-5                         |
| 6          | Pan       | 268                    | 15000                             | 100.0                        | 0         | ---                         |

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**TEST REPORT ON COARSE AGGREGATES**

Lab ID

:

CP-2019-09-12-35

Date: 10-05-19

**PHYSICAL PROPERTIES**

| Sl.No | Tests                          | Result | Requirements as per IS:383-2016                                                              |
|-------|--------------------------------|--------|----------------------------------------------------------------------------------------------|
| 1     | Flakiness Index(%)             | 12.3   | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2     | Elongation Index(%)            | 11.5   |                                                                                              |
| 3     | Specific Gravity               | 2.68   | —                                                                                            |
| 4     | Bulk Density(Loose) (Kg/l)     | 1.56   | —                                                                                            |
| 5     | Bulk Density(Compacted) (Kg/l) | 1.59   | —                                                                                            |
| 6     | Water Absorption(%)            | 0.21   | —                                                                                            |

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**TEST REPORT ON COARSE AGGREGATES**

Lab ID : CP-2019-09-12-35 Date: 09-05-19  
Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli, Kodigehalli Sub Division.  
Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.  
Customer Reference : EE(Project)/Ynk Zone/WO/114/2017-18  
Date of Receipt : 07-05-19  
Sample Type/ Size : 20mm down size coarse aggregate  
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates )  
IS: 2386 :1963(Part - 1,3,4) RA2011  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
IS 2386 Part 4: Mechanical Properties  
Date of test : 07-05-19

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

Total weight taken : 5000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|------------|-----------|------------------------|-----------------------------------|------------------------------|-----------|-----------------------------|
| 1          | 40 mm     | 0                      | 0                                 | 0                            | 100       | 100                         |
| 2          | 20 mm     | 245                    | 245                               | 4.9                          | 95.1      | 90-100                      |
| 3          | 10 mm     | 2560                   | 2805                              | 56.1                         | 43.9      | 25-55                       |
| 4          | 4.75 mm   | 2033                   | 4838                              | 96.8                         | 3.2       | 0-10                        |
| 5          | Pan       | 162                    | 5000                              | 100                          | 0         | -                           |

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## TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2019-09-12-35

Date: 09-05-19

### PHYSICAL PROPERTIES

| S.No | Tests                          | Result | Requirements as per IS:383-2016                                                                                                                                                                                                               |
|------|--------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Flakiness Index(%)             | 13.2   | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate                                                                                                                                                  |
| 2    | Elongation Index(%)            | 12.6   |                                                                                                                                                                                                                                               |
| 3    | Specific Gravity               | 2.66   | —                                                                                                                                                                                                                                             |
| 4    | Bulk Density(Loose) (Kg/l)     | 1.54   | —                                                                                                                                                                                                                                             |
| 5    | Bulk Density(Compacted) (Kg/l) | 1.58   | —                                                                                                                                                                                                                                             |
| 6    | Water Absorption(%)            | 0.22   | —                                                                                                                                                                                                                                             |
| 7    | Aggregate crushing Value(%)    | 24.5   | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8    | Aggregate Impact Value(%)      | 22.8   | 30% for Aggregates to be used in concrete for wearing Surface,<br>45% for Aggregates to be used in concrete other than for wearing Surface.                                                                                                   |

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**R KARTHIK RECHAN**  
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 Quality Manager

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## TEST REPORT OF FINE AGGREGATE

**ID :** CP-2019-09-12-35 **Date:** 09-05-19  
**Project Name :** Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08  
**Location :** Kodigehalli, Kodigehalli Sub Division.  
**Client :** Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra,  
Vidyaranyapura, Bangalore-560097.  
**Customer's Reference :** EE(Project)/Ynk Zone/WO/114/2017-18  
**Date of Receipt :** 07-05-19  
**Sample Type :** Fine Aggregate  
**Reference to BIS codes :** IS 383 : 2016 (Specification for Coarse and fine Aggregates)  
IS: 2386 :1963(Part - 1, 3) RA2012  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
**Date of Test :** 07-05-19  
**Sample weight taken :** 1000 grams

| Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 |                 |                  |                 |
|------------|-----------------------|----------------------------------|------------------------------|-----------|--------------------------------|-----------------|------------------|-----------------|
|            |                       |                                  |                              |           | Grading Zone I                 | Grading Zone II | Grading Zone III | Grading Zone IV |
| 10 mm      | 0                     | 0                                | 0.0                          | 100.0     | 100                            | 100             | 100              | 100             |
| 4.75 mm    | 27                    | 27                               | 2.7                          | 97.3      | 90-100                         | 90-100          | 90-100           | 95-100          |
| 2.36 mm    | 55                    | 82                               | 8.2                          | 91.8      | 60-95                          | 75-100          | 85-100           | 95-100          |
| 1.18 mm    | 239                   | 321                              | 32.1                         | 67.9      | 30-70                          | 55-90           | 75-100           | 90-100          |
| 600 micron | 205                   | 526                              | 52.6                         | 47.4      | 15-34                          | 35-59           | 60-79            | 80-100          |
| 300 micron | 203                   | 729                              | 72.9                         | 27.1      | 5-20                           | 8-30            | 12-40            | 15-50           |
| 150 micron | 191                   | 920                              | 92.0                         | 8.0       | 0-10                           | 0-10            | 0-10             | 0-15            |
| Pan        | 80                    | 1000                             | 100.0                        | 0.0       | ---                            | ---             | ---              | ---             |

Result: The tested Sample Conforms to Grading Zone II

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## TEST REPORT OF FINE AGGREGATE

: CP-2019-09-12-35

Date: 09-05-19

### TEST PROPERTIES

| Tests                            | Result | Requirements as per IS 383:2016                                                                                                             |
|----------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Water Absorption(%)              | 1.5    | —                                                                                                                                           |
| Specific Gravity                 | 2.59   | —                                                                                                                                           |
| Material finer than 75 micron(%) | 6.9    | Uncrushed fine Aggregate Max 3%,<br>Crushed Fine aggregate Max 15%,<br>Mixed Fine aggregate Max 12%,<br>Manufactured Fine aggregate Max 10% |

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Authorized Signatory  
Quality Manager

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## TEST RESULTS OF STEEL

Lab ID : CP-2019-09-12-35 Date: 13-05-19  
Project Name : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli, Kodigehalli Sub Division.  
Agency : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyananyapura, Bangalore-560097.  
Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18  
Date of Receipt : 11-05-19  
Sample Type : Sunvik  
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.  
Date of test: : 11-05-19

| S.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress         | Tensile strength     | Elongation | Bend test    | Rebend test  |
|------|--------------------------|---------------------|---------------------------|----------------------|----------------------|----------------------|------------|--------------|--------------|
|      |                          |                     | (mm)                      | (kg/m)               | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> ) | (%)        |              |              |
| 1    | Sunvik                   | Fe500               | 8                         | 0.391                | 512                  | 652                  | 20.0%      | Satisfactory | Satisfactory |
| 2    | Sunvik                   | Fe500               | 10                        | 0.616                | 528                  | 672                  | 21.0%      | Satisfactory | Satisfactory |
| 3    | Sunvik                   | Fe500               | 12                        | 0.888                | 544                  | 668                  | 20.0%      | Satisfactory | Satisfactory |
| 4    | Sunvik                   | Fe500               | 16                        | 1.581                | 572                  | 674                  | 19.0%      | Satisfactory | Satisfactory |
| 5    | Sunvik                   | Fe500               | 20                        | 2.476                | 584                  | 693                  | 19.0%      | Satisfactory | Satisfactory |
| 6    | Sunvik                   | Fe500               | 25                        | 3.472                | 597                  | 712                  | 18.0%      | Satisfactory | Satisfactory |
| 7    | Sunvik                   | Fe500               | 32                        | 6.321                | 612                  | 728                  | 18.0%      | Satisfactory | Satisfactory |

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Quality Manager

## TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

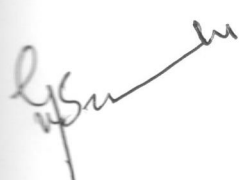
**CP-2019-09-12-35** **Date: 16-05-19**  
**Project Name** : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli, Kodigehalli Sub Division.  
**Client** : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.  
**Customer's Reference** : EE(Project)/Ynk Zone/WO/114/2017-18  
**Test Receipt** : 13-05-19  
**Sample Type/Size** : Solid concrete blocks size (400X200X200)mm  
**Reference to BIS codes** : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification  
 Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)  
**Test Date** : 13-05-19

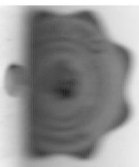
### BLOCK DENSITY:

| Sl. No. | Measurement of overall Dimensions of Individual Blocks |         |        | Overall Volume of the Block in Cubic Centimetres | Weight of Oven Dried Block in Kilograms to the nearest 10 Gram | Block Density in Kg/cum*10 <sup>6</sup> | Avg. Block Density in (Kg/cum) | As per IS 2185(Part 1):2005 (RA 2010) |
|---------|--------------------------------------------------------|---------|--------|--------------------------------------------------|----------------------------------------------------------------|-----------------------------------------|--------------------------------|---------------------------------------|
|         | Length                                                 | Breadth | Height |                                                  |                                                                |                                         |                                |                                       |
|         | mm                                                     | mm      | mm     | (Cm <sup>3</sup> )                               | Kg                                                             | Kg/m <sup>3</sup>                       | Kg/m <sup>3</sup>              |                                       |
| 01      | 399                                                    | 202     | 198    | 15958                                            | 31.449                                                         | 1970.7                                  | 1970.9                         | Not less than 1800Kg/m <sup>3</sup>   |
| 02      | 401                                                    | 200     | 203    | 16281                                            | 32.902                                                         | 2020.9                                  |                                |                                       |
| 03      | 401                                                    | 201     | 203    | 16362                                            | 31.435                                                         | 1921.2                                  |                                |                                       |

### WATER ABSORPTION:

| Sl. No. | Wet weight after water absorption | Dry weight (Oven dry) | Water Absorption | Avg. Water Absorption | As per IS 2185(Part 1):2005 (RA 2010) |
|---------|-----------------------------------|-----------------------|------------------|-----------------------|---------------------------------------|
|         | kg                                | kg                    | %                | %                     |                                       |
| 01      | 33.91                             | 32.25                 | 4.89             | 4.25                  | Shall not be more than 10% by mass    |
| 02      | 33.57                             | 32.14                 | 4.28             |                       |                                       |
| 03      | 33.44                             | 32.24                 | 3.59             |                       |                                       |



: CP-2019-09-12-35

Date: 16-05-19

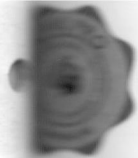
## MEASUREMENT ANALYSIS

|  | Length<br>mm | Breadth<br>mm | Height<br>mm | Requirement as per IS<br>2185(Part 1):2005                                           |
|--|--------------|---------------|--------------|--------------------------------------------------------------------------------------|
|  | 400          | 202           | 199          | Length : $\pm 5\text{mm}$<br>Breadth : $\pm 3\text{mm}$<br>Height : $\pm 3\text{mm}$ |
|  | 402          | 202           | 199          |                                                                                      |
|  | 402          | 202           | 199          |                                                                                      |
|  | 400          | 202           | 200          |                                                                                      |
|  | 404          | 200           | 201          |                                                                                      |
|  | 400          | 201           | 201          |                                                                                      |
|  | 402          | 203           | 203          |                                                                                      |
|  | 402          | 202           | 201          |                                                                                      |
|  | 403          | 201           | 203          |                                                                                      |
|  | 401          | 202           | 200          |                                                                                      |
|  | 402          | 201           | 199          |                                                                                      |
|  | 400          | 202           | 202          |                                                                                      |
|  | 400          | 201           | 199          |                                                                                      |
|  | 401          | 203           | 201          |                                                                                      |
|  | 401          | 202           | 203          |                                                                                      |
|  | 400          | 199           | 200          |                                                                                      |
|  | 399          | 203           | 203          |                                                                                      |
|  | 400          | 199           | 199          |                                                                                      |
|  | 400          | 201           | 200          |                                                                                      |
|  | 402          | 201           | 202          |                                                                                      |
|  | 401          | 201           | 201          |                                                                                      |

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*Signature*





: CP-2019-09-12-35

Date: 16-05-19

**IMPRESSION STRENGTH:**

| S.No. | Size of solid block |         | Area               | Failure Load | Compressive strength | Average Compressive strength |
|-------|---------------------|---------|--------------------|--------------|----------------------|------------------------------|
|       | Length              | Breadth |                    |              |                      |                              |
|       | mm                  | mm      | (mm <sup>2</sup> ) | (KN)         | N/mm <sup>2</sup>    | (N/mm <sup>2</sup> )         |
| 01    | 400                 | 202     | 80710              | 407.9        | 5.1                  | 5.1                          |
| 02    | 402                 | 202     | 81412              | 414.4        | 5.1                  |                              |
| 03    | 402                 | 202     | 81397              | 407.2        | 5.0                  |                              |
| 04    | 400                 | 202     | 80711              | 411.1        | 5.1                  |                              |
| 05    | 404                 | 200     | 80692              | 416.6        | 5.2                  |                              |
| 06    | 400                 | 201     | 80413              | 417.0        | 5.2                  |                              |
| 07    | 402                 | 203     | 81515              | 414.7        | 5.1                  |                              |
| 08    | 402                 | 202     | 81201              | 414.5        | 5.1                  |                              |

Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

| Compressive strength |                        |                           |
|----------------------|------------------------|---------------------------|
| Grade                | Minimum average        | Minimum Individual units. |
| C(5.0)               | 5.00 N/mm <sup>2</sup> | 4.00 N/mm <sup>2</sup>    |
| C(4.0)               | 4.00 N/mm <sup>2</sup> | 3.20 N/mm <sup>2</sup>    |

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**R KARTHIK RECHAN**  
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 Quality Manager

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## TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2019-09-12-35  
Date: 21/05/2019  
: Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli, Kodigehalli Sub Division.  
: Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.  
: EE(Project)/Ynk Zone/WO/114/2017-18  
: 16-05-19  
: GF Column Concrete  
: 150X150X150 mm  
: M25 / 7 Days Compressive Strength  
: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5  
: 21/05/2019

| Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| M25               | 14/05/2019      | 21/05/2019      | 149.18 X<br>151.14 X<br>151.77 | 22547                | 8.569                | 534.4        | 23.7                 | 23.1                         |
| M25               | 14/05/2019      | 21/05/2019      | 149.54 X<br>149.59 X<br>150.60 | 22370                | 8.902                | 512.1        | 22.9                 |                              |
| M25               | 14/05/2019      | 21/05/2019      | 149.55 X<br>150.70 X<br>151.51 | 22537                | 8.452                | 508.7        | 22.6                 |                              |
|                   |                 |                 |                                |                      |                      |              |                      |                              |
|                   |                 |                 |                                |                      |                      |              |                      |                              |
|                   |                 |                 |                                |                      |                      |              |                      |                              |

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## TEST REPORT OF CEMENT CONCRETE CUBES

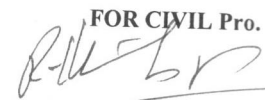
- : CP-2019-09-12-35 Date: 11/06/2019
- : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli, Kodigehalli Sub Division.
- : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.
- : EE(Project)/Ynk Zone/WO/114/2017-18
- : 16-05-19
- : GF Column Concrete
- : 150X150X150 mm
- : M25 / 28 Days Compressive Strength
- : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
- : 11/06/2019

| Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| M25               | 14/05/2019      | 11/06/2019      | 150.96 X                  | 22826                | 8.692                | 637.1        | 27.9                 | 27.9                         |
|                   |                 |                 | 151.20 X                  |                      |                      |              |                      |                              |
|                   |                 |                 | 149.94                    |                      |                      |              |                      |                              |
| M25               | 14/05/2019      | 11/06/2019      | 150.88 X                  | 22771                | 8.542                | 612.5        | 26.9                 |                              |
|                   |                 |                 | 150.92 X                  |                      |                      |              |                      |                              |
|                   |                 |                 | 150.93                    |                      |                      |              |                      |                              |
| M25               | 14/05/2019      | 11/06/2019      | 150.73 X                  | 22660                | 8.525                | 653.0        | 28.8                 |                              |
|                   |                 |                 | 150.33 X                  |                      |                      |              |                      |                              |
|                   |                 |                 | 151.46                    |                      |                      |              |                      |                              |



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\*\*\*\*End of Report\*\*\*\*



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**R KARTHIK RECHAN**  
Authorized Signatory  
Quality Manager

## TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2019-09-12-35** **Date: 21/05/2019**  
 : Construction of Indoor Stadium With All Amenities at Sahakarnagar in Ward No.08 Kodigehalli, Kodigehalli Sub Division.  
 : Sri.Abbu Sambasiva Reddy # 1-B-3, Sree Arcade Layout 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.  
 : EE(Project)/Ynk Zone/WO/114/2017-18  
 : 16-05-19  
 : GF Column Concrete  
 : 150X150X150 mm  
 : M25 / 7 Days Compressive Strength  
 : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5  
 : 21/05/2019

| Classification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|                     |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| Column Concrete     | M25               | 14/05/2019      | 21/05/2019      | 150.55 X                  | 22536                | 8.569                | 523.7        | 23.2                 | 22.6                         |
|                     |                   |                 |                 | 149.69 X                  |                      |                      |              |                      |                              |
|                     |                   |                 |                 | 150.68                    |                      |                      |              |                      |                              |
| Column Concrete     | M25               | 14/05/2019      | 21/05/2019      | 151.88 X                  | 23022                | 8.902                | 511.8        | 22.2                 |                              |
|                     |                   |                 |                 | 151.58 X                  |                      |                      |              |                      |                              |
|                     |                   |                 |                 | 151.36                    |                      |                      |              |                      |                              |
| Column Concrete     | M25               | 14/05/2019      | 21/05/2019      | 149.20 X                  | 22239                | 8.452                | 498.0        | 22.4                 |                              |
|                     |                   |                 |                 | 149.06 X                  |                      |                      |              |                      |                              |
|                     |                   |                 |                 | 151.64                    |                      |                      |              |                      |                              |




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